

SUMMARY OF ANALYSIS (SAMPLE ID: SA36179)

Testing Location:	Customer ID: 2161	Order ID: OR10641	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13130143548	Mass: 23Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/09/2023
License: ADH 113	License: 00065C	2044H20230916GHC-1	Date Received: 10/09/2023
Cultivar (Strain) or Sample Description: GRAPE HI-CHEW			Date Completed: 10/11/2023

*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture Content (%)

11.8

Water Activity (aw)

0.456 @ 23.9°C

PASS/FAIL

PASS

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

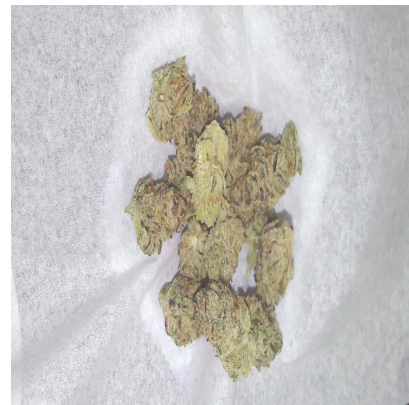
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	24.0	240
CBGA	0.679	6.79
Δ9-THC	0.425	4.25
TOTAL CBD	-	-
TOTAL THC	21.5	215
TOTAL CANNABINOIDS	25.3	253

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.601	6010
β-Caryophyllene	0.268	2680
Guaiol	0.113	1130
α-Humulene	0.0776	776
Linalool	0.0517	517
TOTAL TERPENES	1.28	12800

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36179)

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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 10/10/2023 1710

Method: HPLC/DAD

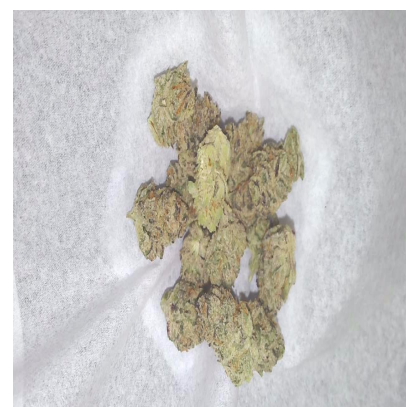
Moisture Content (%): 11.8

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.456 @ 23.9°C

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/</u> <u>mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.0442	0.103	-	-	-
CBCA	ND	ND	0.137	0.320	-	-	-
CBD	ND	ND	0.312	0.728	-	-	-
CBDA	ND	ND	0.115	0.268	-	-	-
CBDV	ND	ND	0.0500	0.117	-	-	-
CBDVA	ND	ND	0.133	0.311	-	-	-
CBG	0.0662	0.662	0.202	0.473	-	0.584	0.584
CBGA	0.679	6.79	0.287	0.339	-	5.99	5.99
CBL	ND	ND	0.234	0.546	-	-	-
CBN	ND	ND	0.107	0.251	-	-	-
CBNA	ND	ND	0.116	0.270	-	-	-
Δ9-THC	0.425	4.25	0.129	0.300	-	3.75	3.75
Δ8-THC	ND	ND	0.201	0.469	-	-	-
THCA	24.0	240	0.0698	0.163	-	212	212
THCV	ND	ND	0.168	0.391	-	-	-
THCVA	0.119	1.19	0.0535	0.125	-	1.05	1.05
TOTAL	25.3	253			-	223	223
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.662	6.62			-	5.84	5.84
TOTAL CBN	-	-			-	-	-
TOTAL THC	21.5	215			-	190	190
TOTAL THC V	0.103	1.03			-	0.909	0.909



SERVING MASS (g): 1.00
SERVINGS/UNIT: 1

"-" Not detected above LOD.

Deviations from standard operating procedure:
None

Recoveries for all analyte standards: 90-110%
Replicate Uncertainties: <5% RSD, <20% RPD
Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC
Total CBD = (CBDA x 0.877) + CBD
Total CBDV = (CBDVA x 0.867) + CBDV
Total CBG = (CBGA x 0.878) + CBG
Total CBN = (CBNA x 0.876) + CBN
Total THC = (THCA x 0.877) + Δ9-THC
Total THC V = (THCVA x 0.867) + THC V

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

Abbreviations: DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

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Kyle W. Felling
Laboratory Director



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Cultivar (Strain) or Sample Description: GRAPE HI-CHEW			Date Completed: 10/11/2023

TERPENOID PROFILE

Analysis Date/Time: 10/10/2023 1840

Analyst: KF

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>	
α-Bisabolol	485	0.0485	
Camphene	ND	-	
δ-3-Carene	ND	-	
β-Caryophyllene	2680	0.268	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	1130	0.113	
α-Humulene	776	0.0776	
Isopulegol	ND	-	
d-Limonene	226	0.0226	
Linalool	517	0.0517	
β-Myrcene	6010	0.601	
cis-Nerolidol	517	0.0517	
trans-Nerolidol	162	0.0162	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	<LOQ	-	
β-Pinene	323	0.0323	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	12800	1.28	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

Abbreviations: ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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Reporting Limit (µg/g): 80.8

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/10/2023 1605

Analyst: KF

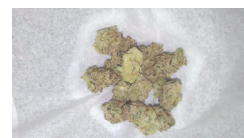
Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0484	0.387	0.5	Kresoxim-methyl (143390-89-0)	-	0.0484	0.387	0.4
Acephate (30560-19-1)	-	0.0484	0.387	0.4	Malathion (121-75-5)	-	0.0484	0.387	0.2
Acetaminophen (57960-19-7)	-	0.0484	0.387	2	Metalaxyl (57837-19-1)	-	0.0484	0.387	0.2
Acetamiprid (135410-20-7)	-	0.0484	0.387	0.2	Methiocarb (2032-65-7)	-	0.0484	0.387	0.2
Aldicarb (116-06-3)	-	0.0484	0.387	0.4	Methomyl (16752-77-5)	-	0.0484	0.387	0.4
Azoxystrobin (131860-33-8)	-	0.0484	0.387	0.2	Methyl parathion (298-0-0)	-	0.0484	0.387	0.2
Bifenazate (149877-41-8)	-	0.0484	0.387	0.2	MGK 264 (113-48-4)	-	0.0484	0.387	0.2
Bifenthrin (82657-04-3)	-	0.0484	0.387	0.2	Myclobutanil (88671-89-0)	-	0.0484	0.387	0.2
Boscalid (188425-85-6)	-	0.0484	0.387	0.4	Naled (300-76-5)	-	0.0484	0.387	0.5
Carbaryl (63-25-2)	-	0.0484	0.387	0.2	Oxamyl (23135-22-0)	-	0.0484	0.387	1
Carbofuran (1563-66-2)	-	0.0484	0.387	0.2	Paclobutrazol (76738-62-0)	-	0.0484	0.387	0.4
Chlorantraniliprole (800008-45-7)	-	0.0484	0.387	0.2	Permethrins (52645-53-1)	-	0.0484	0.387	0.2
Chlorfenapyr (122453-73-0)	-	0.0484	0.387	1	Phosmet (732-11-6)	-	0.0484	0.387	0.2
Chlorpyrifos (2921-88-2)	-	0.0484	0.387	0.2	Piperonyl butoxide (51-03-6)	-	0.0484	0.387	2
Clofentezine (74115-24-5)	-	0.0484	0.387	0.2	Prallethrin (2331-36-9)	-	0.0484	0.387	0.2
Cyfluthrin (68359-37-5)	-	0.0484	0.387	1	Propiconazole (60207-90-1))	-	0.0484	0.387	0.4
Cypermethrin (52315-07-8)	-	0.0484	0.387	1	Propoxur (114-26-1)	-	0.0484	0.387	0.2
Daminozide (1596-84-5)	-	0.0484	0.387	1	Pyrethrins (8003-34-7)	-	0.0484	0.387	1
DDVP (62-73-7)	-	0.0484	0.387	0.1	Pyridaben (96489-71-3)	-	0.0484	0.387	0.2
Diazinon (333-41-5)	-	0.0484	0.387	0.2	Spinosad (168316-95-8)	-	0.0484	0.387	0.2
Dimethoate (60-51-5)	-	0.0484	0.387	0.2	Spiromesifen (283594-90-1)	-	0.0484	0.387	0.2
Ethoprophos (13194-48-4)	-	0.0484	0.387	0.2	Spirotetramat (203313-25-1)	-	0.0484	0.387	0.2
Etofenprox (80844-07-1)	-	0.0484	0.387	0.4	Spiroxamine (118134-30-8)	-	0.0484	0.387	0.4
Etazoxole (153233-91-1)	-	0.0484	0.387	0.2	Tebuconazole (80443-41-0)	-	0.0484	0.387	0.4
Fenoxycarb (72490-01-8)	-	0.0484	0.387	0.2	Thiacloprid (111988-49-9)	-	0.0484	0.387	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0484	0.387	0.4	Thiamethoxam (153719-23-4)	-	0.0484	0.387	0.2
Fipronil (120068-37-3)	-	0.0484	0.387	0.4	Trifloxystrobin (141517-21-7)	-	0.0484	0.387	0.2
Flonicamid (158062-67-0)	-	0.0484	0.387	1					
Fludioxinil (131341-86-1)	-	0.0484	0.387	0.4					
Hexythiazox (78587-05-0)	-	0.0484	0.387	1					
Imazalil (35554-44-0)	-	0.0484	0.387	0.2					
Imidacloprid (138261-41-3)	-	0.0484	0.387	0.4					



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above
LOD

Permethrins measured as the
cumulative residue of the *cis*- and
trans- permethrin isomers.

Pyrethrins measured as the
cumulative residue of the
pyrethrin I, cinerin I, and jasmolin
I isomers.

Action levels are referenced from
the
State of Arkansas MMJ testing
guidelines.

A value of "-" for the action level
means that analyte is not
currently regulated by the
regulations referenced above.

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Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 10/10/2023 1740 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.2	92.2	200
Cadmium (Cd)	-	58.2	92.2	200
Lead (Pb)	-	58.2	92.2	500
Mercury (Hg)	-	58.2	92.2	100



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,
DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

Color Key

RESULT < AL
RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 10/10/2023 1355	Method: Hardy Diagnostics CompactDry	Deviations from SOP:
Analyst: PW	Instrument: Thermo Incubator	None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	NT	-
Coliforms, Total	Present	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	-
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit,
AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested
Absent - Not Detected Above RL, Present - Detected Above RL

Color Key

RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

1

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.
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